

WHAT IS CLAIMED IS:

1. A surface acoustic wave duplexer, comprising:
a piezoelectric substrate;
a transmitting filter formed on the piezoelectric substrate;
a receiving filter formed on the piezoelectric substrate;
a transmitting (Tx) branching line formed on the piezoelectric substrate; and
a receiving (Rx) branching line formed on the piezoelectric substrate.
2. A surface acoustic wave duplexer, according to claim 1, wherein the transmitting branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.
3. A surface acoustic wave duplexer, according to claim 1, wherein the receiving branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.
4. A surface acoustic wave duplexer, according to claim 1, wherein the transmitting branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic,

and

the receiving branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

5. A surface acoustic wave duplexer, according to claim 1, wherein the transmitting branching line and receiving branching line are formed by inductors.

6. A surface acoustic wave duplexer, according to claim 1, wherein the transmitting branching line and receiving branching line are formed with bonding wires.

7. A portable communication device, comprising:

an antenna;

a power amplifier; and

a surface acoustic wave duplexer, wherein

the surface acoustic wave duplexer comprises:

(1) a piezoelectric substrate;

(2) a transmitting filter which is formed on the piezoelectric substrate and is connected to the power amplifier;

(3) a receiving filter which is formed on the piezoelectric substrate;

(4) a transmitting (Tx) branching line which is formed on the piezoelectric substrate and is connected between the antenna and transmitting filter; and

(5) a receiving (Rx) branching line which is formed on the piezoelectric substrate and is connected between the antenna and receiving filter.

8. A portable communication device according to claim 7, wherein the transmitting branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

9. A portable communication device according to claim 7, wherein the receiving branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

10. A portable communication device according to claim 7, wherein the transmitting branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic, and

the receiving branching line comprises a length adjustable part, which is adjusted in length to change a predetermined characteristic.

11. A portable communication device according to claim 7, wherein the transmitting branching line and receiving branching line are formed by inductors.

12. A portable communication device according to claim 7, wherein the transmitting branching line and receiving branching line are formed with bonding wires.